Ifw ,

CERTIFICATE OF MAILING

AUG 14 2006 8

I hereby certify that this correspondence is being deposited with the United States Postal ervice with sufficient postage as First Class Mail in an Envelope addressed to: Mail Stop <u>Disclosure</u> Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, On the date indicated below:

Date: 8 10 2006

Winsome A. St. Rose

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Frank Bergmann, et al.) EXAMINER: David C. Thomas

SERIAL NO.: 10/540,406) ART UNIT: 1637

FILED: June 24, 2005) Confirmation No. 8359

FOR: METHOD FOR BISULFITE) DOCKET NO: 21581-US

TREATMENT

INFORMATION DISCLOSURE STATEMENT

Mail Stop <u>Disclosure</u>. Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant submits herewith a Form-1449, in compliance with the duty of disclosure requirements of 37 C.F.R. §1.56, 1.97 and 1.98, listing accompanying documents that may be considered material to the examination of this application. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits, whichever event occurs last. No certification or fee is therefore required under 37 C.F.R. § 1.97(b). However, should the Commissioner determine that fees are due in order for the Information Disclosure Statement to be considered at this stage, the Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 50-0812.

2

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested.

Respectfully submitted,

Date: 8/10/06

Charles M. Doyle

Reg. No. 39,175

Correspondence Address: Roche Molecular Systems, Inc 1145 Atlantic Avenue Alameda, CA 94501

Tele: (510) 814-2800 Fax: (510) 814-2973

	U.S. Department of Commerce Patent and Trademark Office U.S. Department of Commerce Patent and Trademark Office (Use Several sheets if necessary)					Atty. Docket No. 21581-US Serial No. 10/540,406						
						Applicants: Frank Bergmann, et al.						
	UG 1 4 2006				Filing Date: June 24, 2005				Group: 1637			
哥		<u>/</u>				ENT D	OCUMENTS					
Y	EXAMPLE		DOCUMENT NUMBER		UE DATE		NAME	CLA		SUBCLASS	IF APPR	OPRIATE
		1	4,683,202		7/28/87	,	Mullis, et al.	43		91		25/85
		2	5,130,238	0	7/14/92		Malek, et al.	43	5	91		23/89
		3	5,137,806	08	8/11/92		LeMaistre, et al	43	5	6	12/1	1/89
		4	5,210,015	0.	5/11/93		Gelfand, et al	43	5	6		06/90
		5	5,234,809	08	8/10/93		Boom, et al	43	5	91)1/91
		6	5,487,972	0	1/30/96		Gelfand, et al	43	5	6	01/0)5/93
		7	5,552,277	0	9/03/96		Nelson, et al	43	5	6		19/94
		8	5,595,890	0	1/21/97		Newton, et al	43	5	91.2		17/95
		9	5,639,611		6/17/97		Wallace, et al	43	5	6)9/94
		10	5,786,146	0	7/28/98		Herman, et al	43	5	6		03/96
		11	5,804,375	0	9/08/98		Gelfand, et al	43	5	6		25/95
		12	6,174,670 B1		1/16/01		Wittwer, et al	43	5	6		04/97
		13	6,331,393 B1		2/18/01		Laird, et al	43	5	6	05/1	14/99
					PATENT DOCUMENTS			1				
			DOCUMENT NUMBER	<u> </u>	PUBLICA DAT		COUNTRY	CLA	SS	SUBCLASS	TRANS	LATION
		14	0 200 362 B1		12/10	/86	EP					
		15	0 201 184 B1		12/17		EP					
		16	0 389 063 B1		09/26		EP					
		17	0 439 182 B1		07/31		EP		•			
		18	1 394 172 A1		03/03		ЕР					
		18	WO 90/01069		02/08		PCT					
		20	WO 92/008800		01/23							
		21	WO 92/02638		02/20		PCT	10 575				
		22	WO 96/41811		12/27		PCT					
	-	23	WO 99/16781		04/08	/99	PCT					
		24	WO 99/40098		08/12		PCT					
		25	WO 00/32762		06/08	/00	PCT		_			

Attorney Docket: 21581-US Serial No. 10/540,406 Filing Date: June 24, 2005 Page 2 of 3

	26	WO 00/37291	06/29/00	PCT							
	27	WO 01/37291 A1	05/25/01	PCT							
	28	WO 01/98528 A2	12/27/01	PCT				-			
	29	WO 02/31186 A2	04/18/02	PCT							
	+	•									
		OTHER ART (Inc	Luding Author	 	ont Pages I	Etc.)					
	30	Abramson, R., et al., 1993, " 4:41-47					Biotechnolo	ogy,			
	31										
	32										
	33	Barany, F., 1991, "The Ligase chain Reaction in a PCR World", PCR Methods and Applications, 5-16									
	34	Barany, F., 1991, "Genetic disease detection and DNA amplification using cloned thermostable ligase", Proc. Natl. Acad. Sci. USA, 88:189-193									
1	35 Benyajati, C., et al., "Alcohol dehydrogenase in Drosophila: isolation and characterization of mess RNA and eDNA clone", Nucleic Acids Research, 8:5649-5667							enger			
	36										
	37										
38 Frommer, M., 1992, "A genomic sequencing protocol that yields a positi residues in individual DNA strands", <i>Proc. Natl. Acad. Sci. USA</i> , 89:1827-							nethylcyto	osine			
	39										
	40	Grigg, G., 1996, "Sequencing 5-methylcytosine residues by the bisulphate method", The Journal of Seq.&Mapping 6:189-198									
	41	Grunau, C., et al., 2001, "Bisulfite genomic sequencing: systematic investigation of critical experimental parameters", Nucleic Acids Research, 29 (13e65):1-7									
•	42	Guatelli, J., et al., 1990, "Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication", Proc. Natl. Acad. Sci. USA, 87:1874-1878									
	43 Hayatsu, H., et al., 1970, "The Addition of Sodium Bisulfite to Uracil and the Cytosine", Jour American Chemical Society, 92 (3):724-726						Journal of	the			
	 Hayatsu, H., et al., 1970, "Reaction of Sodium Bisulfite with Uracil, Cytosine, and their Derivativ Biochemistry 9 (14): 2858-2864 							es",			
	45										
	46	Kubareva, E., et al., 2002, ". Method', BioTechniques 33:5		Methylation Site o	f DNA-Metl	hyltransferase	yltransferase <i>nla</i> X by a Hybrid				
	47										

Attorney Docket: 21581-US Serial No. 10/540,406 Filing Date: June 24, 2005 Page 3 of 3

	48	Oakeley, E., 1999, "DNA methylation analysis: a review of current methodologies", <i>Pharmacology & Therapeutics</i> , 84: 389-400						
	49	Olek, A., et al., 1996, "A modified and improved method for bisulphate based cytosine methylation analysis", Nucleic Acids Research, 24(24):5064-5066						
-	50	Paulin, R., et al., 1998, "Urea improves efficiency of bisulphate-mediated sequencing of 5'-methylcytosine in genomic DNA", <i>Nucleic Acids Research</i> , 26(21) :5009-5010						
	51	Raizis, A., et al., 1995, "A Bisulfite method of 5-Methylcytosine Mapping That Minimizes Template Degradation", Analytical Biochemistry, 226:161-166						
	52 Sabban, E., et al., 1982, "The Effect of Bisulfite-induced C→U Transitions on Aminoacylation of coli Glycine tRNA', The Journal of Biological Chemistry, 257 (9) 4796-4805							
	53	Slae, S, et al., 1978, "Deamination of Cytidine by Bisulfite: Mechanism at Neutral pH", J Org Chem., 43 (21):497-4200						
	54							
	Wu, D., et al., 1989, "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation							
EXAMINER6	I	DATE CONSIDERED						
*EXAMINER conformance an	Initia d not	al if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in considered. Include copy of this form with next communication to applicant.						